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NOTICE OF ALLOWANCE AND FEE(S) DUE

65913

7590

02/28/2008

EXAMINER

KHUU, HIEN DIEU THI

PAPER NUMBER

ART UNIT

2863

DATE MAILED: 02/28/2008

NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/535,370 05/18/2005 Wolfgang Buhr DE02 0274 US 1614

TITLE OF INVENTION: CIRCUIT ARRANGEMENT WITH NON-VOLATILE MEMORY MODULE AND METHOD OF EN-/DECRYPTING DATA IN THE NON-VOLATILE MEMORY MODULE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	05/28/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance onerwise in Block 1, by (orders and notification of a) specifying a new corre	maintenance fees espondence address	will be ; and/o	mailed to the current of (b) indicating a separate	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 65913 7590 02/28/2008 NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
SAN JOSE, CA)3131						(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/535,370	05/18/2005	•	Wolfgang Buhr			DE02 0274 US	1614
ITTLE OF INVENTION IN THE NON-VOLATII			DLATILE MEMORY MO	DDULE AND MEI	'HOD (OF EN-/DECRYPTING	F DATA
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
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KHUU, HIEI 1. Change of corresponde		2863	702-108000				
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee	T a substitute for filing at (B) RESIDENCE: (CIT	patent. If an assign assignment. Y and STATE OR (COUNT	TRY)	cument has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual LC	orporat	on or other private gro	up entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	tus (from status indicated		☐ b. Applicant is no lo	ngan alaiming SMA	II DN'	FITV status See 27 CE	P 1 27(a)(2)
**	d Publication Fee (if rea	uired) will not be accepte	ed from anyone other than	-			e assignee or other party in
Authorized Signature							
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NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT			KHUU, HIEN DIEU THI		
			ART UNIT	PAPER NUMBER	
M/S41-SJ 1109 MCKAY DF SAN JOSE, CA 9:			2863 DATE MAILED: 02/28/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/535,370	BUHR, WOLFGANG		
Notice of Allowability	Examiner	Art Unit	_	
	CINDY D. KHUU	2863		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Report of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS		
				
2. 🔀 The allowed claim(s) is/are <u>1-5</u> .				
 Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	e been received. e been received in Application cuments have been received of this communication to file	on No d in this national stage application from the		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1				
each sheet. Replacement sheet(s) should be labeled as such in t				
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)		nformal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 		Amendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allowance		
	/John E Barlow Jr Supervisory Pater Art Unit 2863			

DETAILED ACTION

Pertinent Art Cited

The following US Patent Applications reveal the current state of the art:

Kocher et al. (US 6,289,455) teaches of a circuit arrangement for electronic data processing comprising (Fig. 2):

at least one non-volatile memory module (265) for storing encrypted data to be protected against unauthorized access (Column 9, lines 40-41);

at least one memory module interface logic circuit (260) in electronic communication with the non-volatile memory module (Fig. 2); said at least one memory module interface circuit being for addressing the non-volatile memory module, for writing the data to the non-volatile memory module, or for reading out the data from the non-volatile memory module (Column 9, lines 40-41);

at least one code Read Only Memory (ROM) module (245) for storing and/or supplying at least one ROM code (Column 9, line 33); and

at least one code ROM module interface logic circuit (240-225-200) in electronic communication with the code ROM module (Fig. 2) for addressing the code ROM module and for reading out the ROM code from the code ROM module (Column 9, lines 28-41).

However, Kocher does not teach at least wherein the at least one ROM code stored in the code ROM module is used to generate at least one key code for encrypting or decrypting data being written to the non-volatile memory module or data being read from the non-volatile memory module, said at least one ROM code further being used for decrypting address data coming from a central processing unit.

Note: See Applicant arguments/remarks dated 01/08/2008.

Allowable Subject Matter

Claims 1-5 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The primary reason for the allowance of claim 1 is the inclusion of the limitation "wherein the at least one ROM code stored in the code ROM module is used to generate at least one key code for encrypting or decrypting data being written to the non-volatile memory module or data being read from the non-volatile memory module, said at least one ROM code further being used for decrypting address data coming from a central processing unit". The prior art of record, taken alone or in combination, fails to disclose or render obvious.

Claims 2-5 are allowed due to their dependency on claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Fax/Telephone Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cindy D. Khuu whose telephone number is (571) 272-8585. The examiner can normally be reached on M-F, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Application/Control Number: 10/535,370 Page 4

Art Unit: 2863

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chk/ 2/12/2008 /John E Barlow Jr./ Supervisory Patent Examiner, Art Unit 2863